

Fig. 1

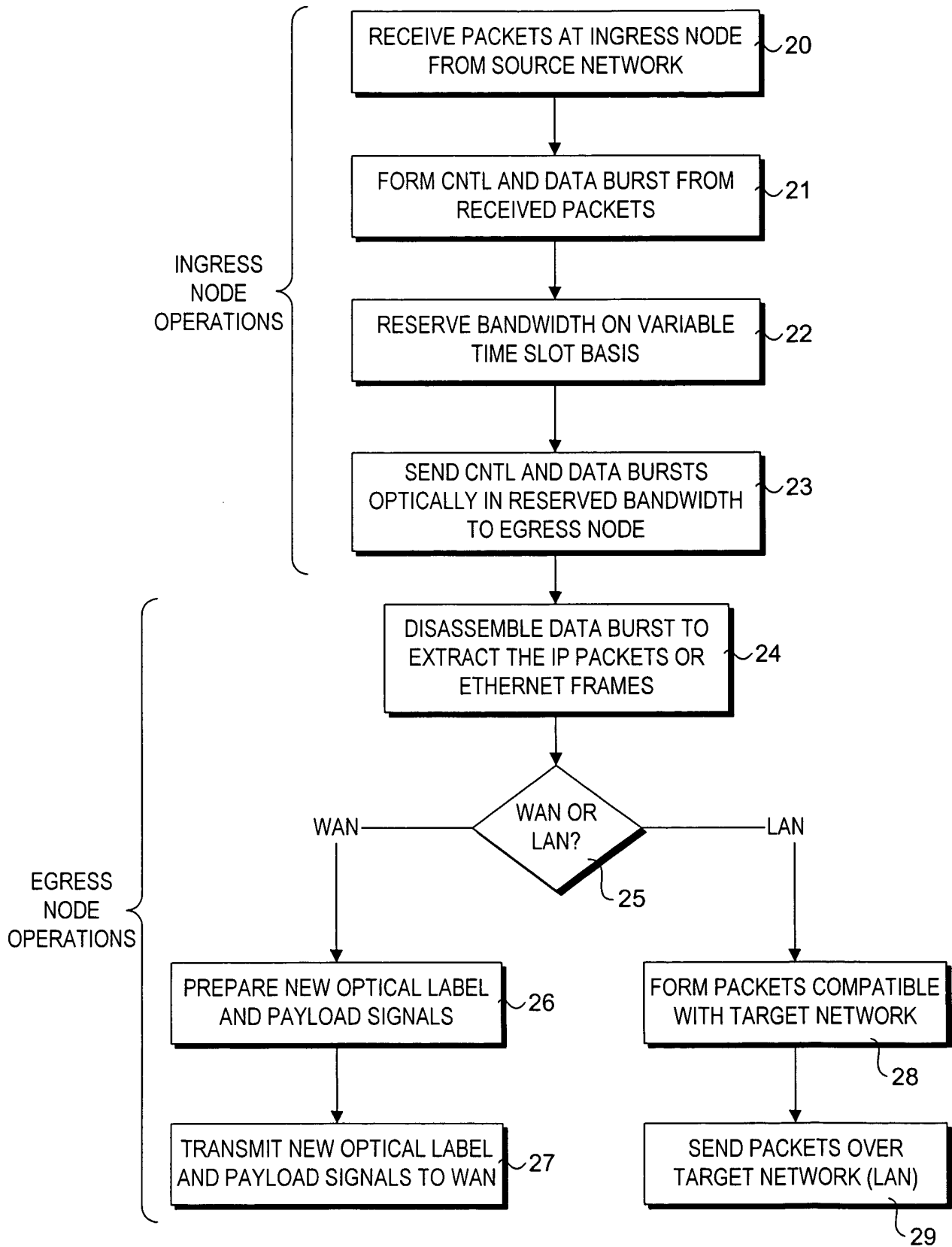


Fig. 2

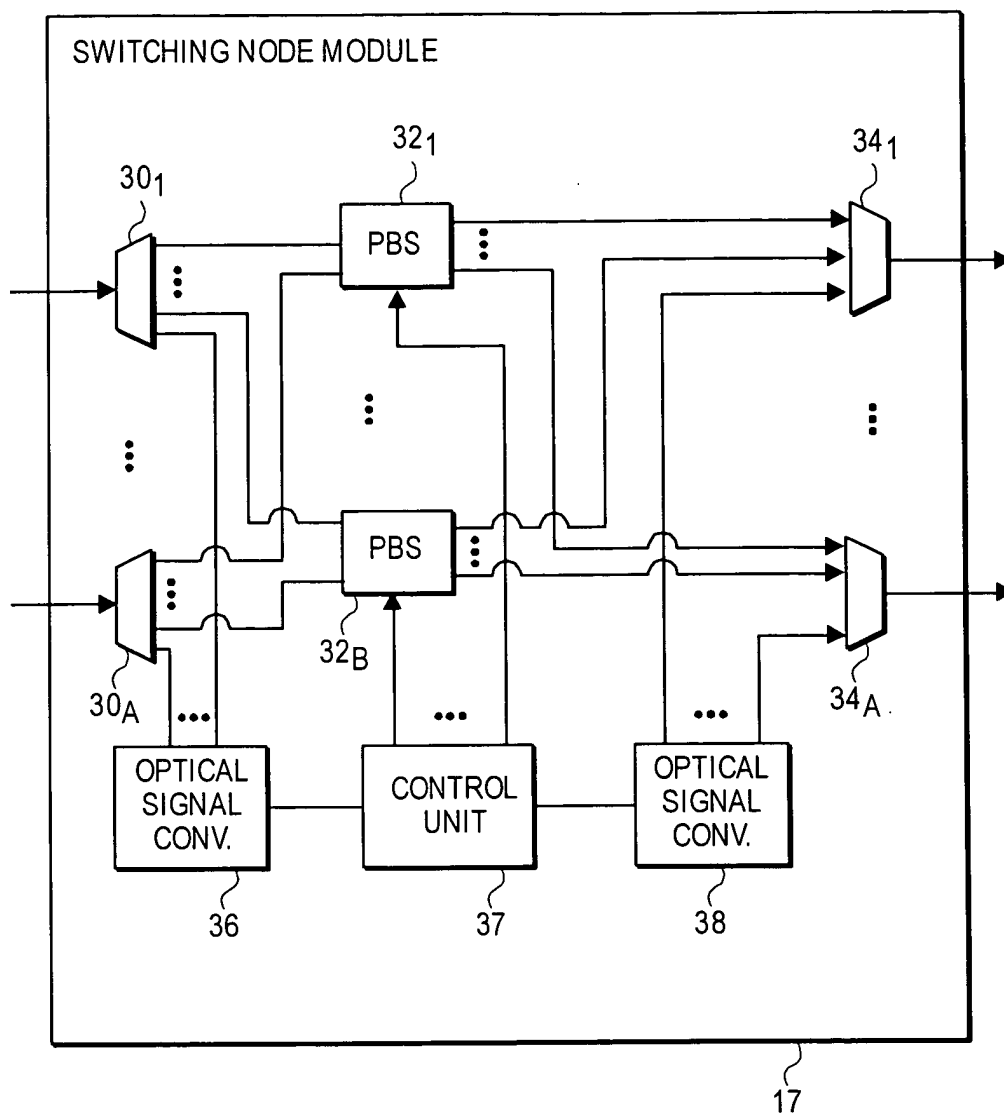


Fig. 3

GMPLS BASED ARCHITECTURE FOR PBS

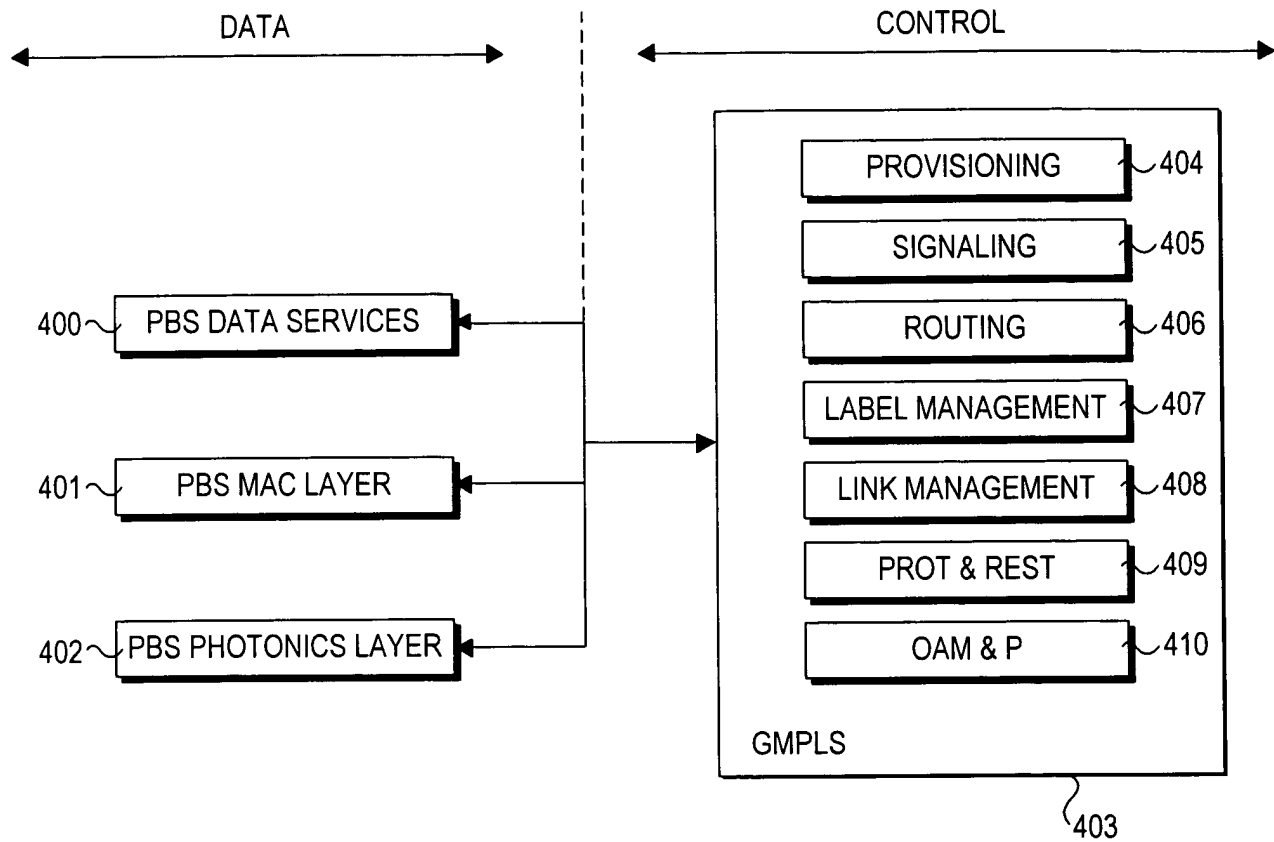


Fig. 4

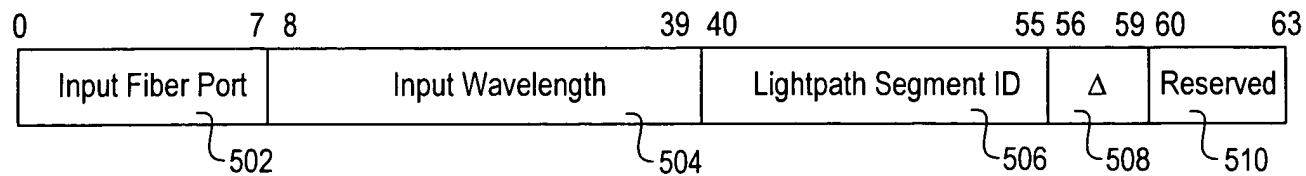


Fig. 5

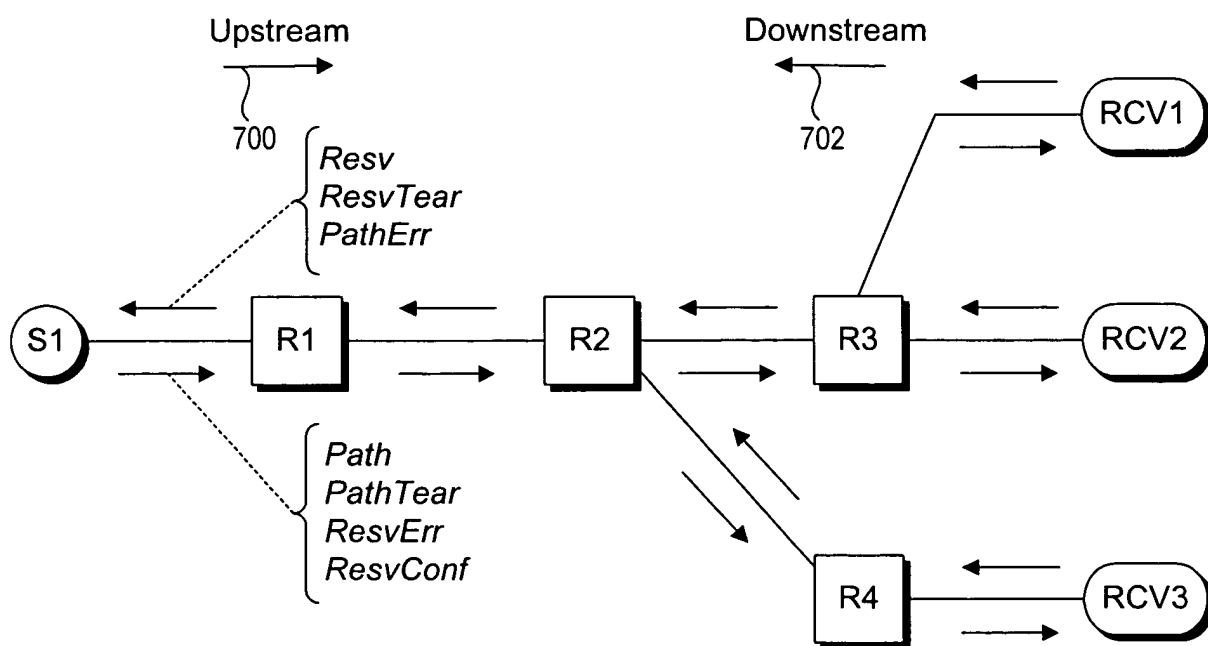
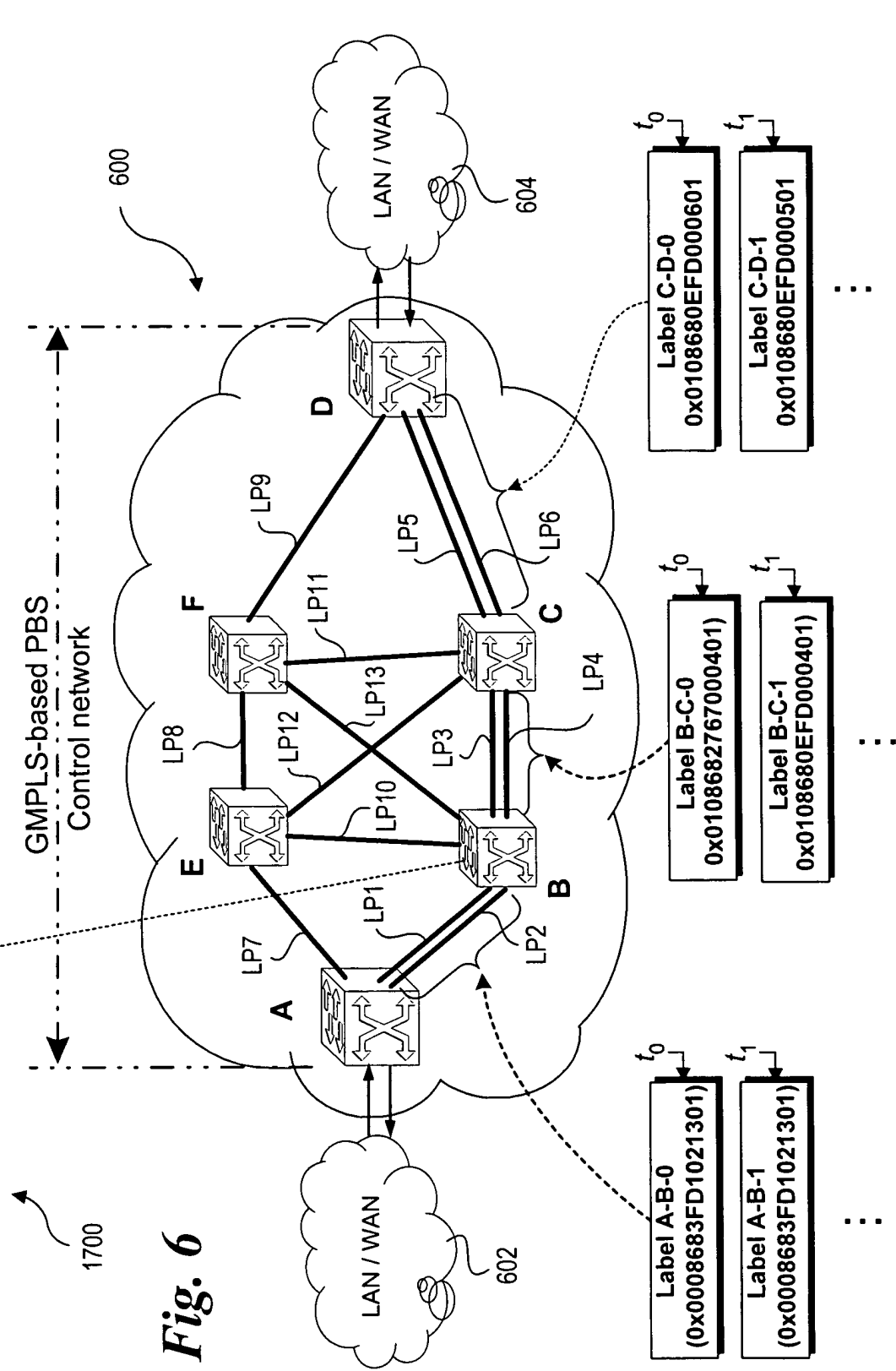


Fig. 7

RESERVATION TABLE										
Key (Burst ID)	Input Fiber Port	Input Wavelength	Input Lightpath Segment ID	Output Fiber Port	Output Wavelength	Output Lightpath Segment ID	Start Time	End Time	Bandwidth %	Status
... 1005	1	196.4	1004	5	196.4	1016	12:00:000	12:00:001	20	1
...



<Path Message> ::=
 <Common Header> ~ 802
 [<INTEGRITY>] ~ 804
 <UNI_IPv4_SESSION> ~ 806
 <IPv4_IF_ID_RSVP_HOP> ~ 808
 <TIME_VALUES> ~ 810
 [<EXPLICIT_ROUTE>] ~ 811
 <GENERALIZED_PBS_LABEL_REQUEST> ~ 812
 [<LABEL_SET> ...] ~ 814
 [<ADMIN_STATUS>] ~ 816
 <DESTINATION_PBS_ADDRESS> ~ 818
 <SOURCE_PBS_ADDRESS> ~ 820
 [<POLICY_DATA> ...] ~ 822
 <sender descriptor> ~ 824

or

Fig. 8a

800

Sender descriptor for a unidirectional PBS light-path:

▶<sender descriptor> ::=
 <LSP_TUNNEL_IPv4_SENDER_TEMPLATE> ~ 826
 <PBS_SENDER_TSPEC> ~ 828

Fig. 8b

824A

Format of the sender descriptor for a bi-directional PBS light-path

▶<sender descriptor> ::=
 <LSP_TUNNEL_IPv4_SENDER_TEMPLATE> ~ 826
 <PBS_SENDER_TSPEC> ~ 828
 <UPSTREAM_LABEL> ~ 830

Fig. 8c

824B

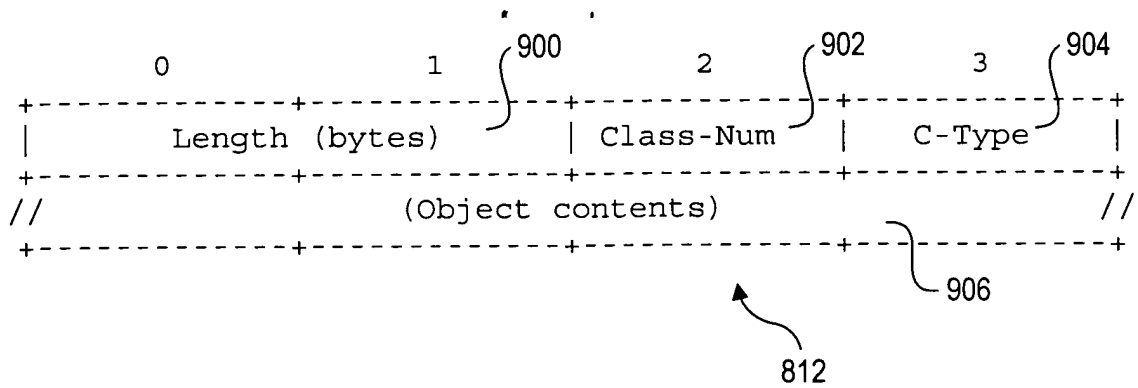


Fig. 9

```

<Resv Message> ::=
  <Common Header> ~ 802
  [ <INTEGRITY> ] ~ 804
  <UNI_IPv4_SESSION> ~ 806
  < IPv4_IF_ID_RSVP_HOP > ~ 808
  <TIME_VALUES> ~ 810
  [ <IPv4_RESV_CONFIRM> ] ~ 1004
  [ <ADMIN_STATUS> ] ~ 816
  [ <POLICY_DATA> ... ] ~ 822
  <STYLE> ~ 1006
  <FF flow descriptor> ~ 1008

```

Fig. 10a

```

<FF flow descriptor> ::=
  <PBS_FLOWSPEC> ~ 1010
  <LSP_TUNNEL_IPv4_FILTER_SPEC> ~ 1012
  <GENERALIZED_PBS_LABEL> ~ 1014

```

Fig. 10b

```

<PathTear Message> ::=
    <Common Header> ~ 802
    [ <INTEGRITY> ] ~ 804
    <UNI_IPv4_SESSION> ~ 806
    <IPv4_IF_ID_RSVP_HOP> ~ 808
    [ <ADMIN_STATUS> ] ~ 816
    <sender descriptor> ~ 824

```

Fig. 11

1100

```

<ResvTear Message> ::=
    <Common Header> ~ 802
    [ <INTEGRITY> ] ~ 804
    <UNI_IPv4_SESSION> ~ 806
    <IPv4_IF_ID_RSVP_HOP> ~ 808
    [ <ADMIN_STATUS> ] ~ 816
    <STYLE> ~ 1006
    <FF flow descriptor> ~ 1008

```

Fig. 12

1200

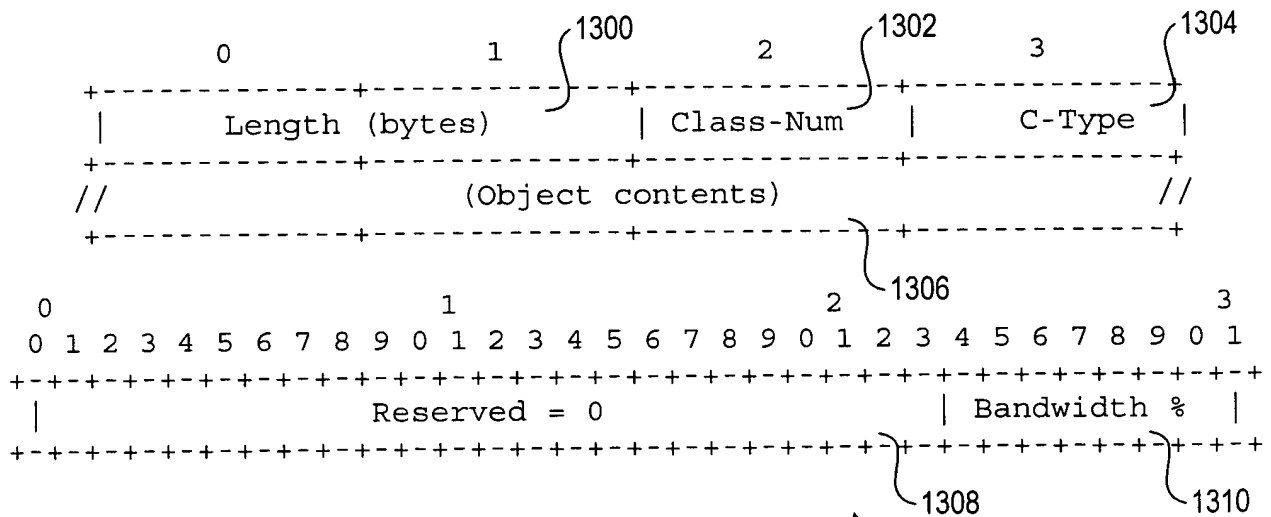
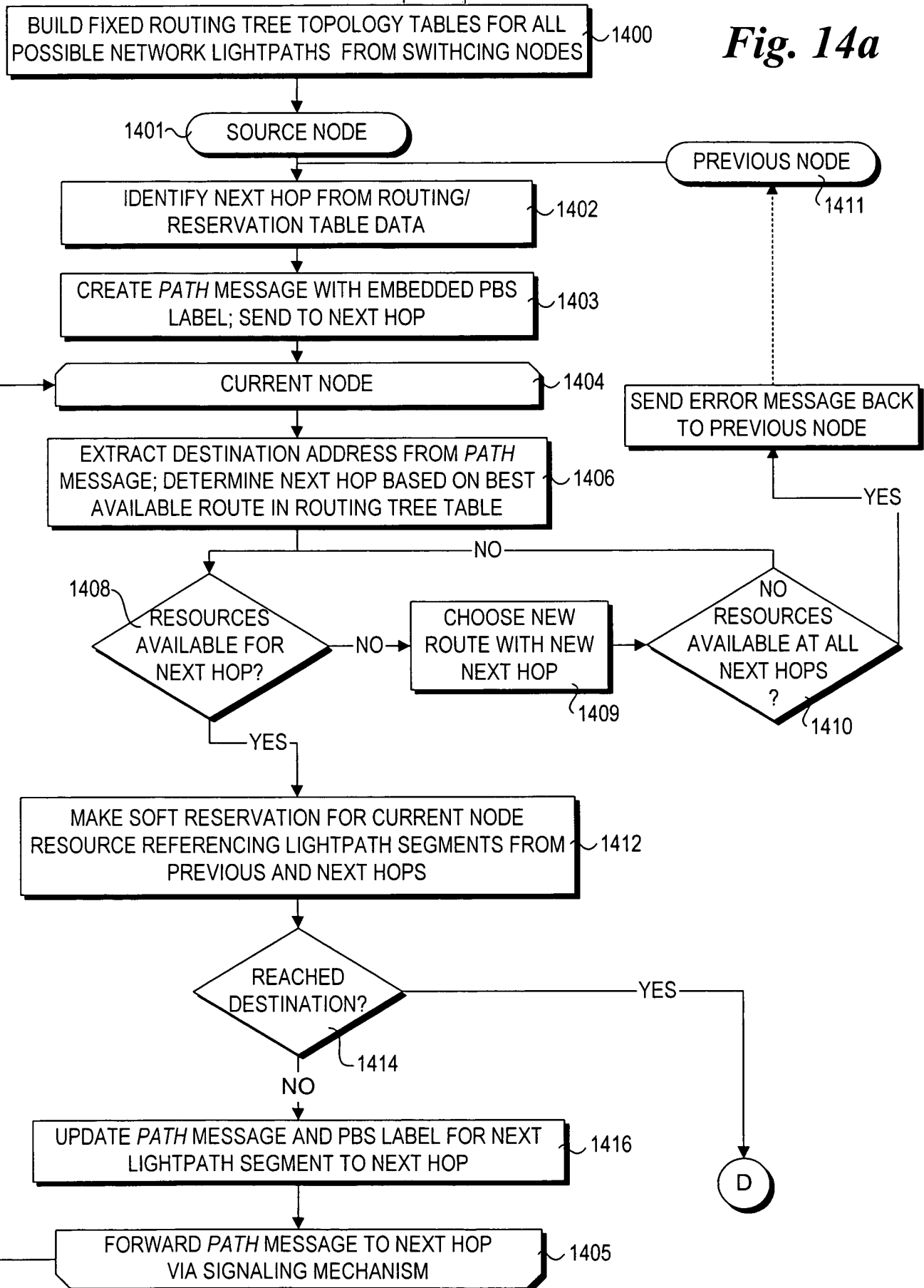


Fig. 13

828, 1008



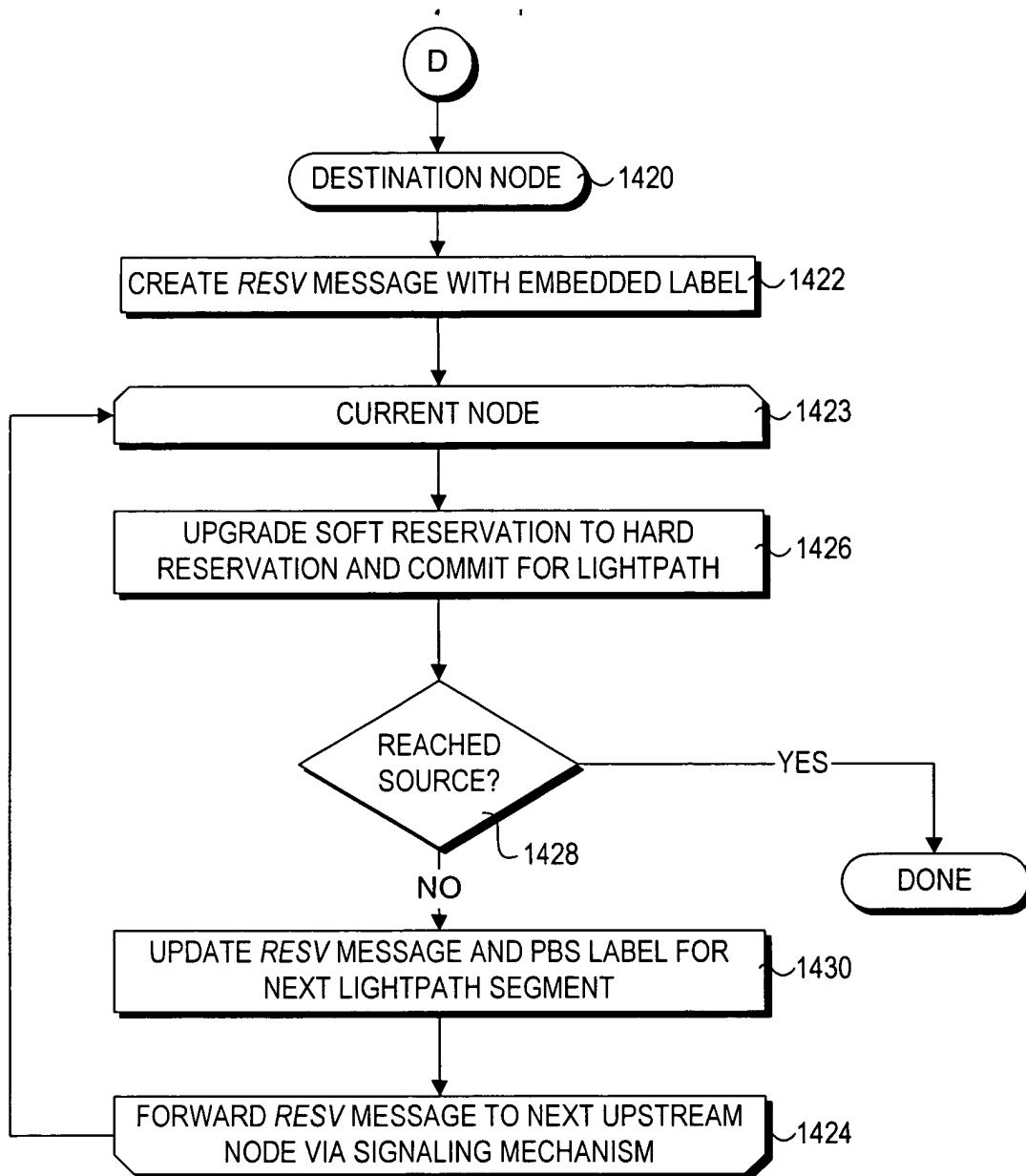
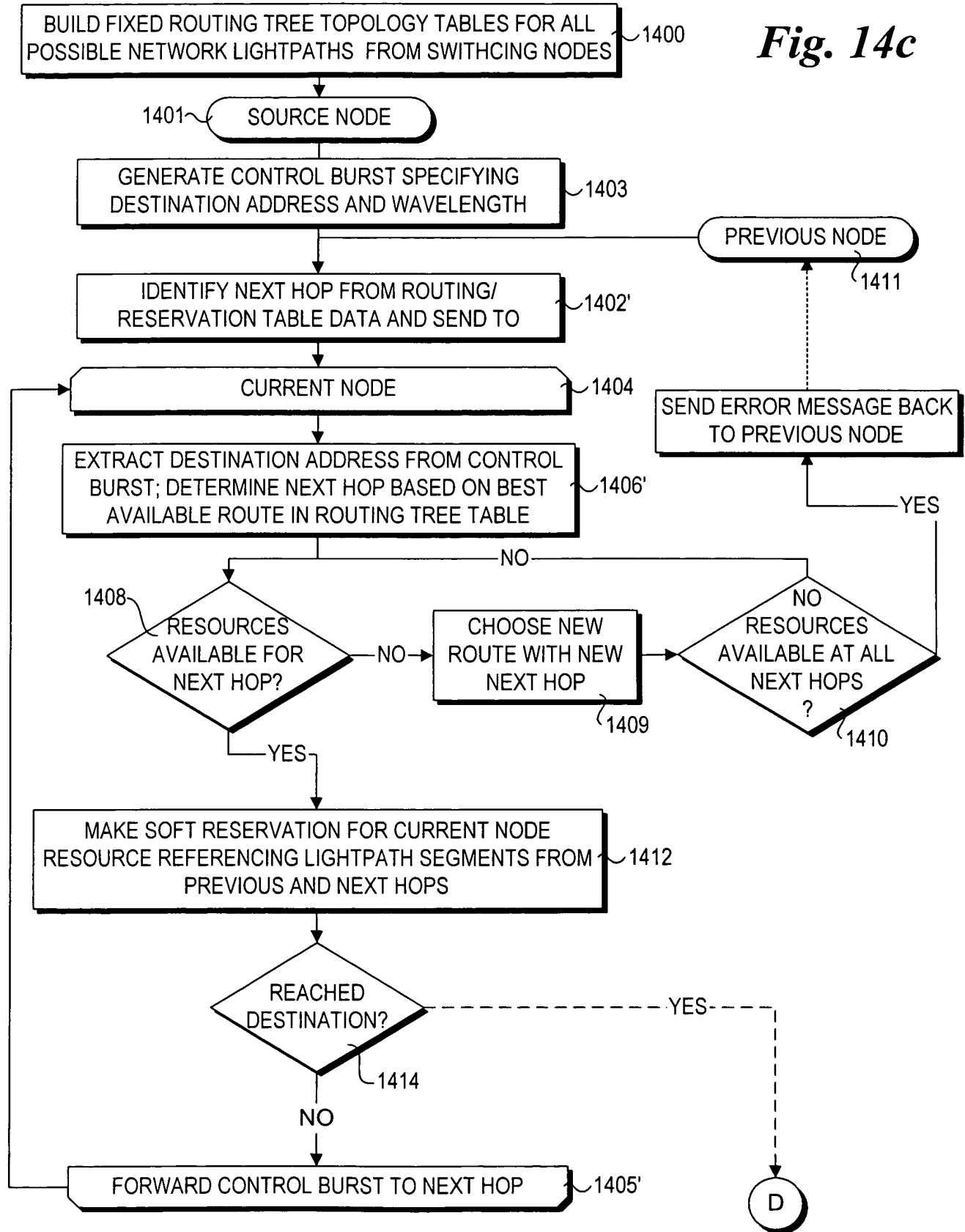


Fig. 14b

Fig. 14c



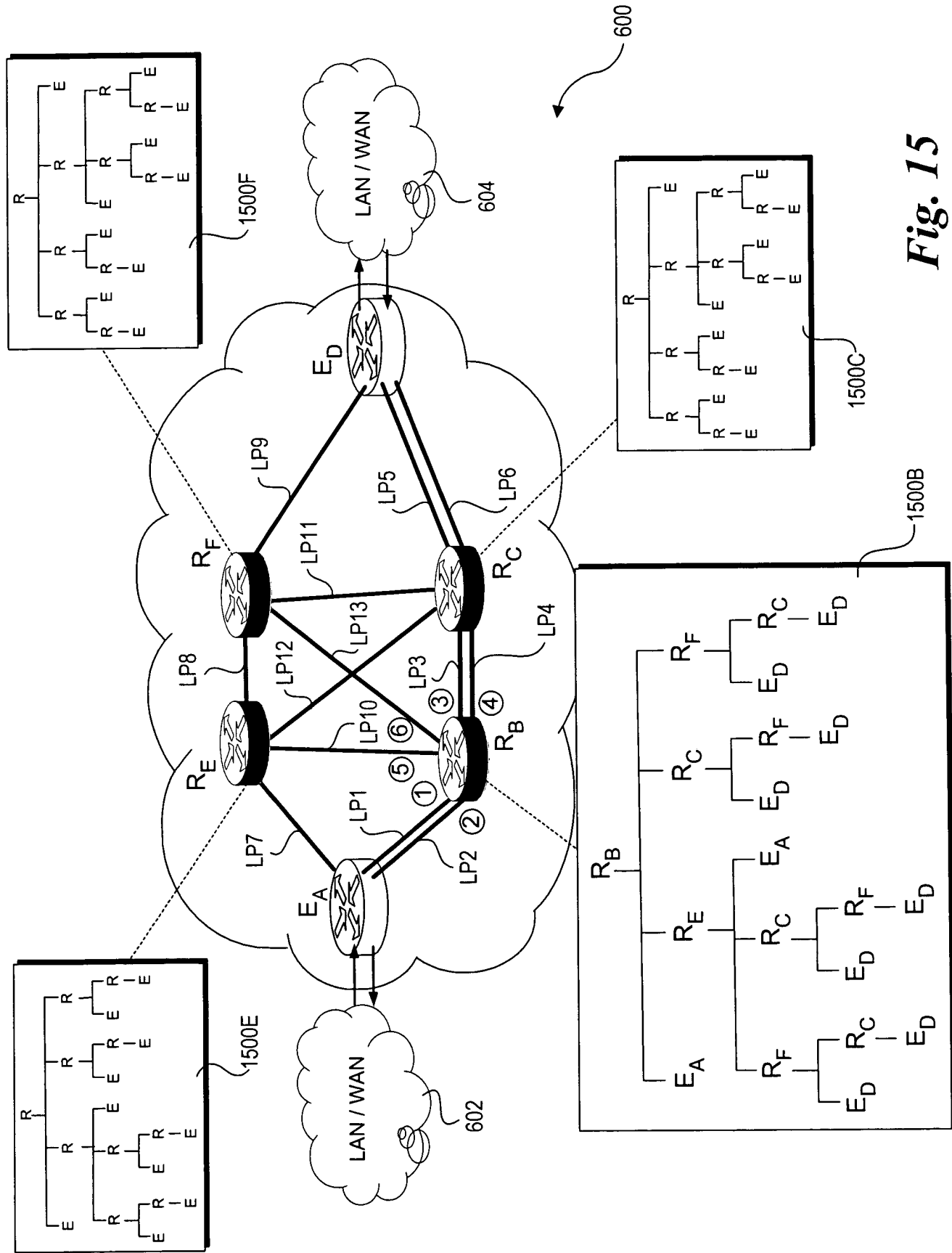


Fig. 15

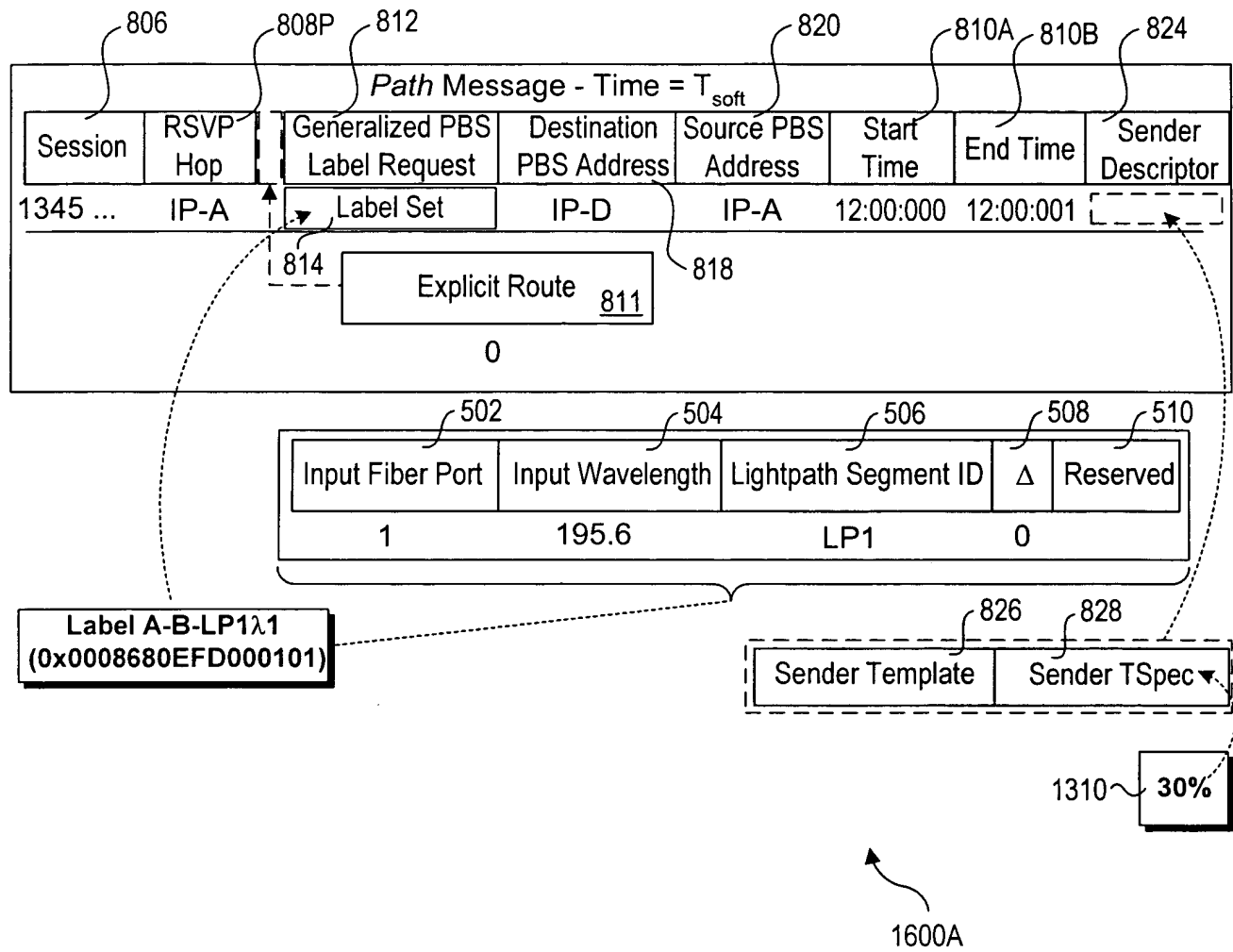


Fig. 16

RESERVATION TABLE									
Key (Burst ID)	Input Fiber Port	Input Wavelength	Input Lightpath Segment ID	Output Fiber Port	Output Wavelength	Output Lightpath Segment ID	Start Time	End Time	Status
... 1005	1	195.6	LP1	5	195.6	LP3	12:00:000	12:00:001	1
... 1027	1	197.2	LP1	5	197.2	LP4	12:00:000	12:00:003	1
... 1045	2	197.2	LP2	6	197.2	LP4	12:00:001	12:00:002	1
... 1115	3	196.4	LP3	4	196.4	LP2	12:00:002	12:00:003	1
... 1146	1	195.6	LP1	5	195.6	LP13	12:00:002	12:00:004	1
... 1178	2	196.4	LP2	6	196.4	LP3	12:00:002	12:00:003	1
... 1222	6	197.2	LP4	1	197.2	LP1	12:00:004	12:00:006	1
... 1256	4	195.6	LP3	3	195.6	LP3	12:00:004	12:00:007	1
... 1313	2	196.4	LP2	2	196.4	LP2	12:00:005	12:00:006	0
... 1345	5	195.6	LP13	1	195.6	LP1	12:00:005	12:00:007	0

1700

Fig. 17

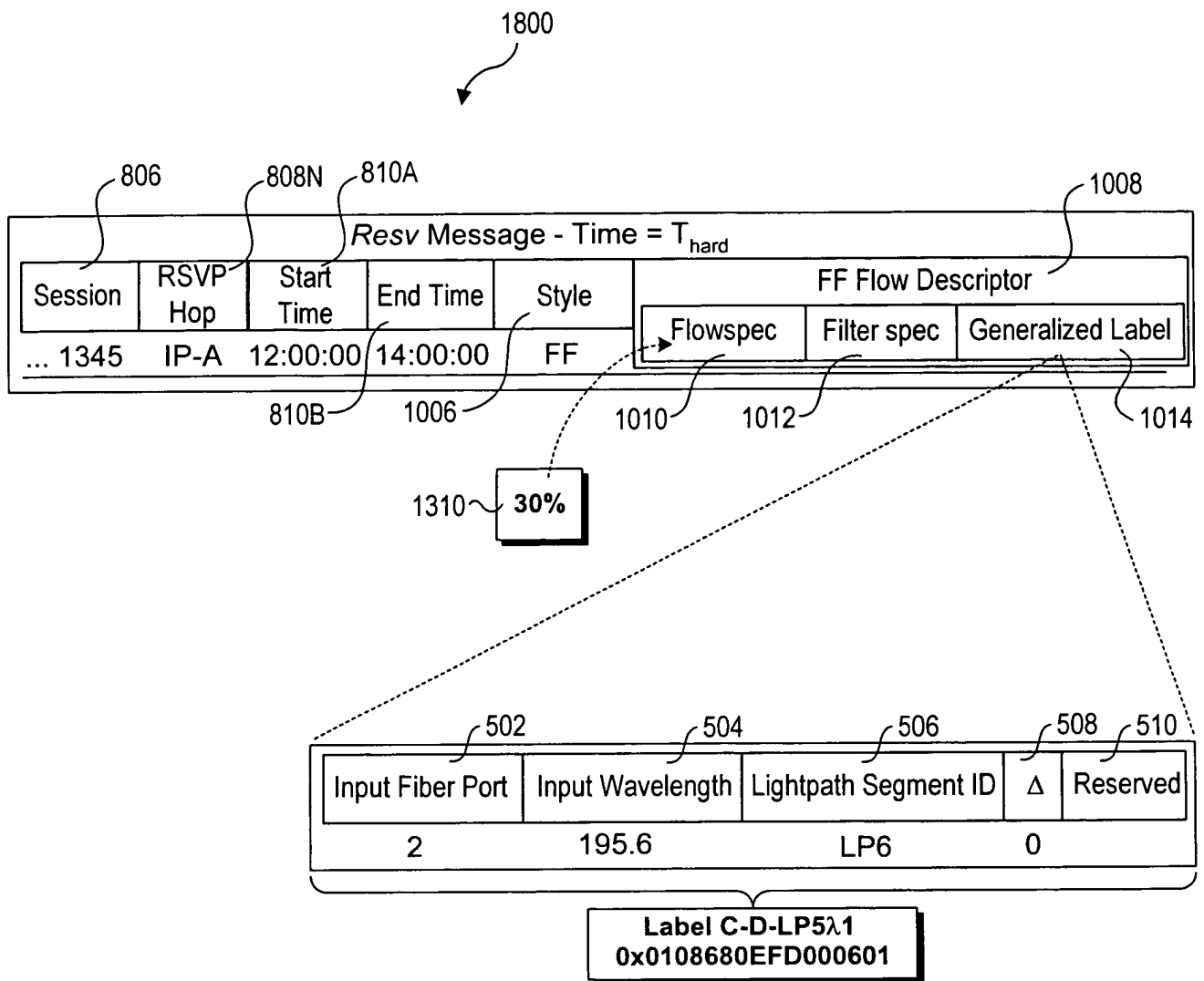


Fig. 18

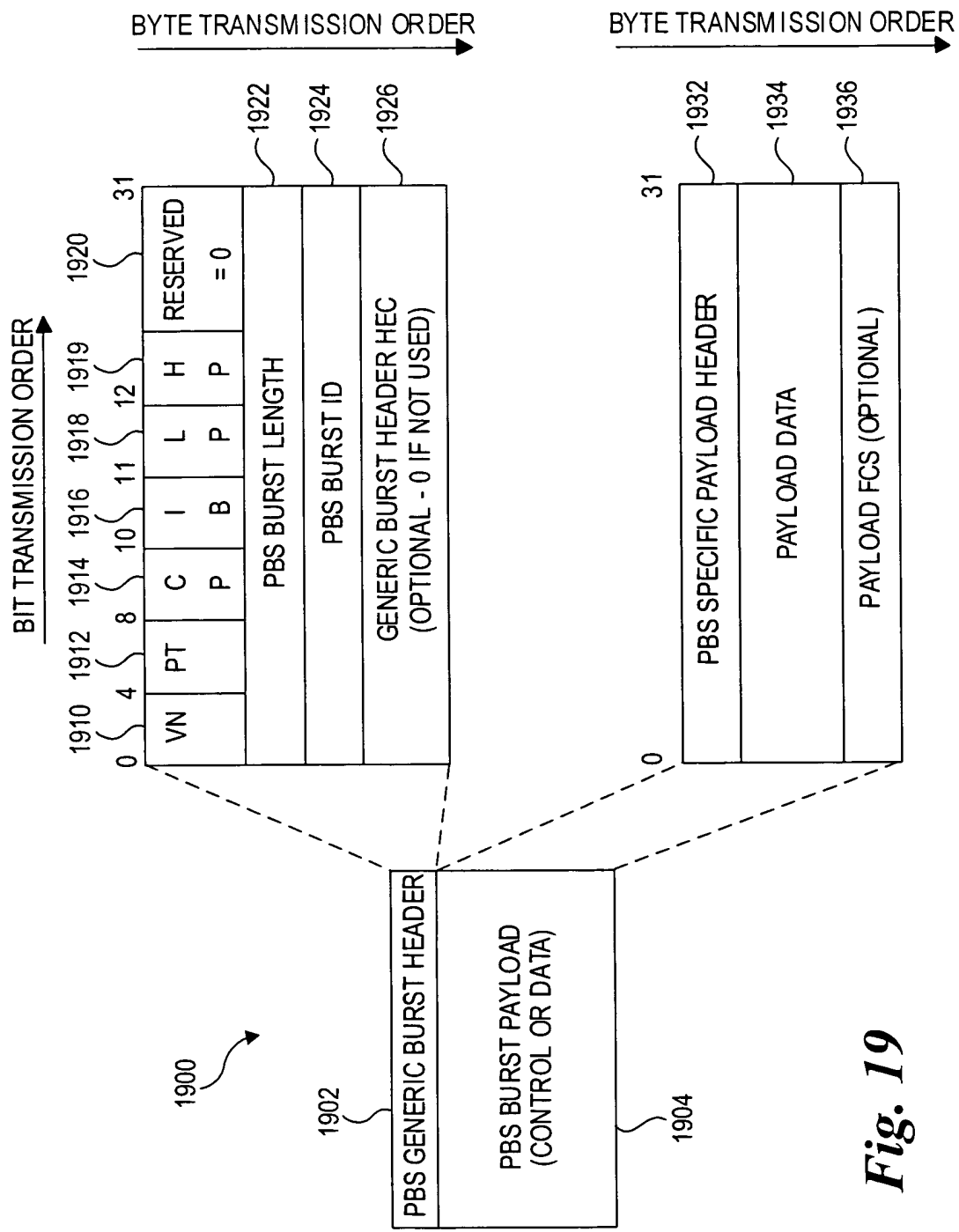


Fig. 19

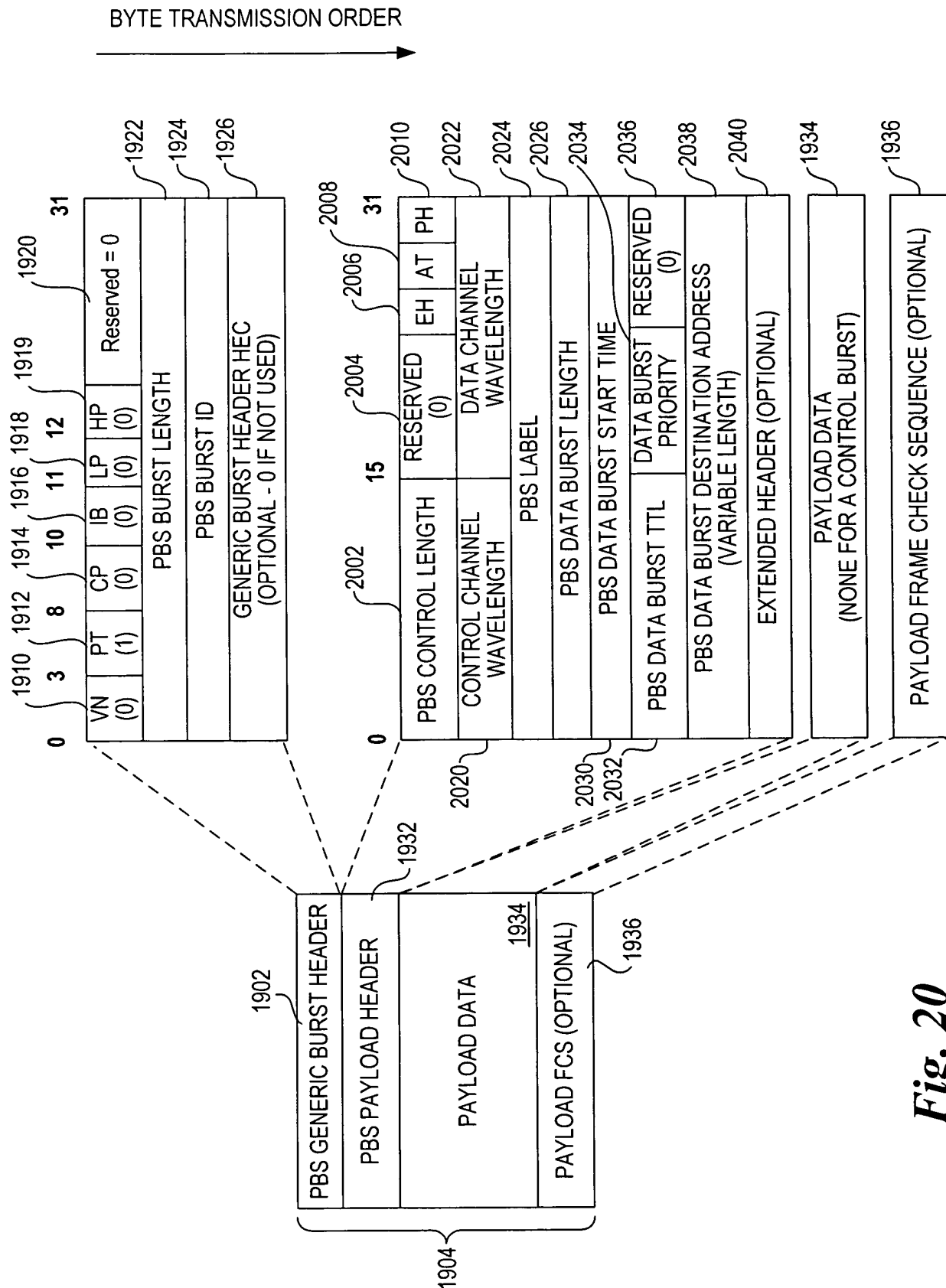


Fig. 20

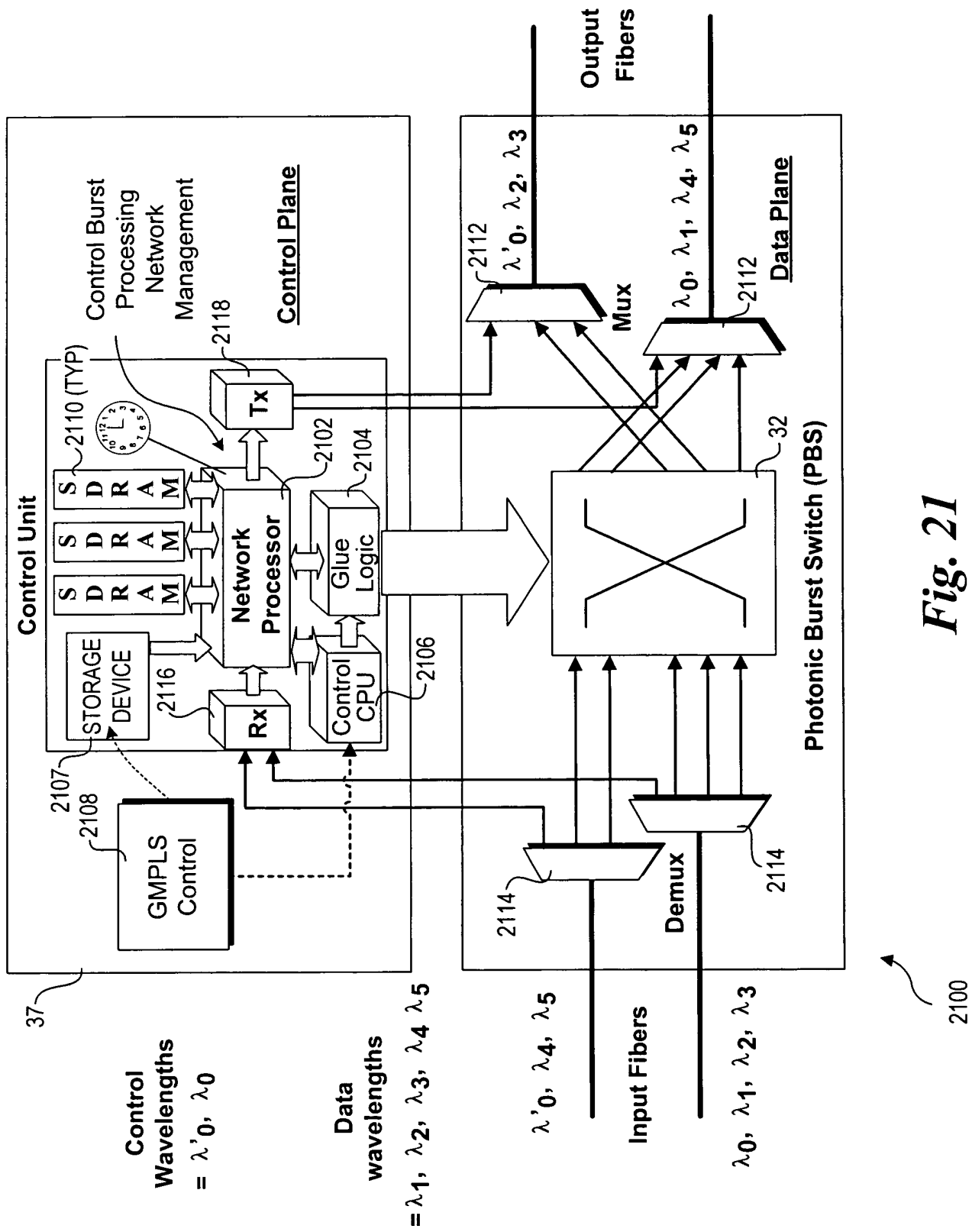


Fig. 21